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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,933	12/22/2000	David J.W. Aastuen	49837USA 4K/051	3760
32692	7590 07/27/2005		EXAMINER	
	ATIVE PROPERTIE	SHAFER, RICKY D		
PO BOX 334	127		ART UNIT	PAPER NUMBER
ST. PAUL,	MN 55133-3427		2872	

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Andrew Or and the	09/746,933	AASTUEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ricky D. Shafer	2872			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 12 May 2005.					
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.				
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-19 and 22-26 is/are pending in the application. 4a) Of the above claim(s) 14-19,22-24 and 26 is/are withdrawn from consideration. 5) Claim(s) 1-12 and 25 is/are allowed. 6) Claim(s) 13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 		ate Patent Application (PTO-152)			

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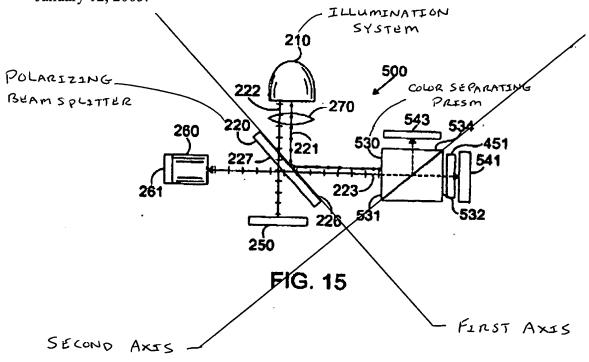
Art Unit: 2872

DETAILED ACTION

1. Applicant's arguments filed 05/12/2005 have been fully considered but they are not persuasive.

Applicant argues that the reference to Knox ('626), as shown in Fig. 15, fails to teach or fairly suggest tilt axes which are perpendicular.

The examiner disagrees and refers applicant to the marked-up copy of Fig. 15 from Knox ('626), as illustrated below, along with the explanation set forth in the communication mailed on January 12, 2005.



In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Accordingly, the rejection set forth in the previous office action is maintained.

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knox (>626) in view of Wilder et al ('809) or Smith ('621).

Knox discloses a projection system comprising an illumination system (210), a polarizing beam splitter (220), the polarizing beam splitter defines a first tilt axis with respect to the axis (221) of the illumination system, a color separation prism (530), the prism assembly having a second tilt axis with respect to said axis (221), wherein the polarizing beam splitter and the prism assembly are arranged such that the first and second tilt axes are perpendicular to each other, Note Fig. 15 along with the associated description thereof, except for the polarizing beam splitter being a Cartesian type polarizing beam splitter.

Wilder et al and Smith each teach it is well known to use Cartesian type polarizing beam splitters in the form of a cube having a polarizing film disposed along a diagonal plane in the same field of endeavor for the purpose of reflecting a first polarization component and transmitting a second polarization component orthogonal to said first polarization component.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the polarizing beam splitter of Knox to include an function equivalent Cartesian type polarizing beam splitter, as taught by Wilder et al or Smith, in order to similarly reflect a first polarization component and transmit a second polarization component orthogonal to said first polarization component.

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4. Claims 1-12 and 25 are allowed.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky D. Shafer whose telephone number is (571) 272-2320. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RDS

July 25, 2005